

MATERIAL SAFETY DATA SHEET according to Regulation 1907/2006/EC, Article 31
DEUREX® EO 4501 W**SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY****1.1. Product identifier**

Trade names: DEUREX® EO 4501 W

1.2. Relevant identified uses of the substance or mixture and uses advised againstRelevant identified uses
Additive**1.3. Details of the supplier of the safety data sheet**DEUREX AG
Dr.-Bergius-Str. 8 – 12
D - 06729 Elsteraue
Tel.: +49(0)3441 / 8 29 29 29, Fax: +49(0)3441 / 8 29 29 28
Material-Safety@Deurex.com
www.Deurex.com**1.4. Emergency telephone number**Common poisons information centre of the Federal States
Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia.
D-99089 Erfurt
Tel.: +49(0)361-730730**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) 1272/2008 [CLP]:

H-Phrases: None.

P-Phrases: None.

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008 [CLP/GHS]:

Not a hazardous substance or mixture.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Chemical identity and characterisation:

Substance name: Water-borne wax dispersion

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General informations: General information: Instantly remove any clothing soiled by the product.

Following inhalation: Keep patient calm, supply fresh air, consult doctor in case of symptoms.

Following skin contact: Wash thoroughly with soap and water.

Following eye contact: Rinse opened eye for at least 15 minutes under running water.

Following ingestion: Rinse mouth and then drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

No typical symptoms and effects known. If symptoms persist, seek medical advice.

4.3. Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Alcohol resistant foam, dry powder, carbon dioxide, water spray. Extinguishing media that suit the surrounding fire.

Unsuitable extinguishing media:

Water jet.

5.2. Special hazards arising from the substance or mixture

Evolution of fumes/smog. The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus.

Further information: Product contains water and is non-combustible. Dispose of fire debris and contaminated firefighting water according to official regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.
Use personal protective clothing.

6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not allow product to reach sewage system or ground water.

6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

No special measures required.
Information about fire- and explosion protection: No special requirements.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Keep containers tightly closed in a cool place.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Protect from frost.

7.3. Specific end use(s)

No further relevant information available.

According to the formulation, the products do not contain:

- Heavy metals
- VOC
- Compounds listed in the Chemicals Prohibition Ordinance
- Substances according to Directive 2002/95/EC – Appendix II
- Substances according to Regulation (EC) 1907/2006 – Appendix XIV (SVHC list)

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Eye / Face protection: Safety glasses with side-shield (frame goggles) (e.g. EN 166).

Skin / Body protection: Protective work clothing

Protection of hands: Chemical resistant protective gloves (EN 374).

Material of gloves: Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374):

Nitrile rubber (0,4 mm), chloroprene rubber (0,5 mm), polyvinylchloride (0,7 mm) and other.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Breathing protection: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information

Appearance:

Form:	liquid
Colour:	white to yellowish
Odour:	specific type
Odour threshold:	not determined
pH-value at 20 °C:	9,0 + 2

Change in condition

Melting point/melting range:	not determined
Boiling point/boiling range:	> 100 °C
Flash point:	not applicable
Flammability (solid, gaseous):	not applicable
Ignition temperature:	not determined
Decomposition temperature:	not determined
Self-ignition:	Product is not self-igniting.
Danger of explosion:	Product is not explosive.
Explosion limits:	
Lower:	not determined
Upper:	not determined

Oxidizing properties:	none
Vapour pressure:	not determined
Density at 20 °C:	approx. 0,98 g/cm ³
Relative density:	not determined
Vapour density:	not determined
Evaporation rate:	not determined
Solubility in/Miscibility with water:	fully miscible
Partition coefficient (n-octanol/water):	not determined
Viscosity	
Dynamic at 20 °C:	< 1000 mPas

9.2 Other information

No further relevant information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Unknown.

10.2. Chemical stability

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

Strong bases, strong acids, strong oxidizing agents, reactive chemicals.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:	
Experimental/calculated LD/LC50-values: Oral/Dermal LD50 > 2000 mg/kg (rat)	
Irritating effects:	No significant effects or critical hazards known.
Eye irritation:	No significant effects or critical hazards known.
Sensitisation:	No significant effects or critical hazards known.
Germ cell mutagenicity:	No significant effects or critical hazards known.
Carcinogenicity:	No significant effects or critical hazards known.
Reproductive toxicity:	No significant effects or critical hazards known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity:
Toxicity to fish: LC50 (96 h) > 100 mg/l, *Leuciscus idus*
Microorganisms/Effect on activated sludge: > 1,000 mg/l (DEV-L2)
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

12.2. Persistence and degradability

The product is biodegradable.
Elimination information: > 95 % COD reduction (OECD 302B; ISO 9888; 88/302/EEC, part C)
Easily eliminated from water.

12.3. Bio-accumulative potential

No significant effects or critical hazards known.

12.4. Mobility in soil

No significant effects or critical hazards known.
Additional ecological information:
General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5. Results of PBT and vPvB assessment

The substances do not meet the criteria for a classification as PBT or vPvB.

12.6. Other adverse effects

No further relevant information available.

SECTION 13: DISPOSAL CONSIDERATION

13.1. Waste treatment methods

Recommendation: Must be disposed of or incinerated in accordance with local regulations.
Uncleaned packaging:
Uncontaminated packaging can be re-used. Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

Transport only in accordance with ADR for road haulage, RID for rail transportation, ADNR/IMDG for carriage by vessel/sea and IATA for carriage by air.

	Road traffic - ADR - Rail traffic - RID -	Barge traffic - ADNR - Maritime traffic - IMDG -	Air traffic - IATA -
14.1. UN number	No hazardous materials	No hazardous materials	No hazardous materials
14.2. UN proper shipping name	No hazardous materials	No hazardous materials	No hazardous materials
14.3. Transport hazard class(es)	No hazardous materials	No hazardous materials	No hazardous materials
14.4. Packing group	No hazardous materials	No hazardous materials	No hazardous materials
14.5. Environmental hazards	No hazardous materials	No hazardous materials	No hazardous materials
14.6. Special precautions for user Not applicable			
14.7. Transport in bulk according to Annex II of MARPOL73/8 and the IBC Code Not applicable Transport/Additional information: Not dangerous according to the above specifications.			

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture

National regulations:

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

SVHC-substances according REACH, Art. 57: void.

15.2. Chemical safety assessment

Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

Further information:

This information is based on our current knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H302 Harmful if swallowed.

H319 Causes serious eye irritation.